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L4: Entry 1 of 2

File: PGPB

Oct 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020161247

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020161247 A1

TITLE: Process for making vitamin E using hydrogen-tris(oxalato) phosphate

PUBLICATION-DATE: October 31, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bonrath, Werner	Freiburg		DE	
Netscher, Thomas	Bad Krozingen		DE	
Wietelmann, Ulrich	Friedrichsdorf		DE	

US-CL-CURRENT: 549/411

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNOW
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☒ 2. Document ID: CN 1365977 A EP 1227089 A1 US 20020161247 A1 JP 2002284776 A

L4: Entry 2 of 2

File: DWPI

Aug 28, 2002

DERWENT-ACC-NO: 2002-592643

DERWENT-WEEK: 200282

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TITLE: Manufacture of (all-rac)-alpha-tocopherol involves catalyzed reaction of trimethylhydroquinone with isophytol or phytol in the presence of hydrogen tris(oxalato)phosphate as catalyst in organic solvent

INVENTOR: BONRATH, W; NETSCHER, T ; WIETELMANN, U

PRIORITY-DATA: 2001EP-0101026 (January 18, 2001)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CN 1365977 A	August 28, 2002		000	C07D311/72
EP 1227089 A1	July 31, 2002	E	011	C07D311/72
US 20020161247 A1	October 31, 2002		000	C07D311/76
JP 2002284776 A	October 3, 2002		009	C07D311/72

INT-CL (IPC): C07 B 61/00; C07 D 311/72; C07 D 311/76

ABSTRACTED-PUB-NO: EP 1227089A

BASIC-ABSTRACT:

NOVELTY - An (all-rac)- alpha -tocopherol is manufactured by the catalyzed reaction of trimethylhydroquinone with isophytol or phytol in the presence of hydrogen tris(oxalato)phosphate as the catalyst in an organic solvent.

USE - For the manufacture of (all-rac)- alpha -tocopherol.

ADVANTAGE - The use of catalyst in the invention avoids corrosion, is non-toxic, does not contaminate the environment, e.g. with chlorinated by-products or heavy metal ions, and catalyzes the desired reaction in high yields and selectivity. The catalyst can display its activity in small, really catalytic, and can be readily separable and re-usable several times.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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Term	Documents
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TRI.DWPI,EPAB,JPAB,USPT,PGPB.	192689
OXALATO.DWPI,EPAB,JPAB,USPT,PGPB.	326
OXALATOES	0
OXALATOS	0
OXALATOE.DWPI,EPAB,JPAB,USPT,PGPB.	1
PHOSPHATE.DWPI,EPAB,JPAB,USPT,PGPB.	309302
PHOSPHATES.DWPI,EPAB,JPAB,USPT,PGPB.	66609
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